Claudia I. Scheimbauer — Curriculum Vitae

Personal Information

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Born on June 15, 1986; citizen of Austria.

Research interests

My research interests intersect with *algebraic topology and mathematical physics*;
more precisely, with functorial field theories and cobordisms, higher category theory, factorization algebras, and derived algebraic geometry,

Career & education

- **Assistant Professor at University of Technology, Munich** since Sept. 2019
  Tenure-track position
- **Associate Professor at Norwegian University of Science and Technology Trondheim, Norway** Aug. 2018–Aug. 2019
  Tenure-track position
  Funded by the Bergen Research Foundation, project "Higher Categories meet Quantum Field Theory"
- **Research Fellow at University of Oxford, UK** Apr. 2017 – Aug. 2018
  Funded by an Advanced Postdoc.Mobility Fellowship from the Swiss National Science Foundation
- **Postdoctoral Researcher at Max Planck Institute for Mathematics, Bonn, Germany** Jan. 2015 – Mar. 2017
  Partially funded by an Early Postdoc.Mobility Fellowship from the Swiss National Science Foundation
- **Visitor at Institut des Hautes Études Scientifiques, Bures-sur-Yvette, France** Oct.–Dec. 2014
- **Ph.D. in Mathematics, ETH Zurich, Switzerland** conferred 10.03.2015
  Advisor Damien Calaque, Coreferees Giovanni Felder & Bertand Toën, defense 26.08.2014
- **DI in Technical Mathematics, Vienna University of Technology, Austria** Oct. 2009

Publications and Preprints

[1] Julia E. Bergner, Angèlica M. Osorno, Viktoriya Ozornova, Martina Rovelli, and Claudia I. Scheimbauer. Comparison of Waldhausen constructions. Available at arXiv:1901.03606. To appear in *Ann. of K-theory*.

[2] Julia E. Bergner, Angèlica M. Osorno, Viktoriya Ozornova, Martina Rovelli, and Claudia I. Scheimbauer. 2-Segal objects and the Waldhausen construction. Available at arXiv:1809.10924. To appear in *Alg. Geom. Topol.*

[3] Owen Gwilliam and Claudia Scheimbauer Duals and adjoints in the factorization higher Morita category. 2018 Available at arxiv:1804.10924. Submitted, under revision.

[4] Julia E. Bergner, Angèlica M. Osorno, Viktoriya Ozornova, Martina Rovelli, and Claudia I. Scheimbauer. The edgewise subdivision criterion for 2-Segal objects Available at arXiv:1807.05069. *Proc. Amer. Math. Soc.*, 148(1):71–82, 2020.

[5] Damien Calaque and Claudia Scheimbauer. A note on the (∞, n)-category of cobordisms. *Algebr. Geom. Topol.*, 19(2):533–655, 2019. Also available at arXiv:1509.08906, based on the second author's PhD thesis.

[6] Julia E. Bergner, Angèlica M. Osorno, Viktoriya Ozornova, Martina Rovelli, and Claudia I. Scheimbauer. 2-Segal sets and the Waldhausen construction. *Topology and its Applications*, 235:445 – 484, 2018. Also available at arXiv:1609.02853.

[7] Theo Johnson-Freyd and Claudia Scheimbauer. (Op)lax natural transformations, twisted field theories, and the "even higher" Morita category of E_d-algebras. February 2015. *Advances in Mathematics* 307 (2017) pp. 147-223. Also available at arXiv:1502.06526.

[8] Kevin Costello and Claudia Scheimbauer. Lectures on mathematical aspects of (twisted) supersymmetric gauge theories. In Damien Calaque and Thomas Strobl, editors, *Mathematical Aspects of Quantum Field Theories*, Mathematical Physics Studies. Springer International Publishing, 2015. Also available at arXiv:1401.2676.

[9] Claudia Scheimbauer. *Factorization Homology as a Fully Extended Topological Field Theory.* PhD thesis, ETH Zurich, 2014. Available at `http://www.scheimbauer.at/ScheimbauerThesis.pdf`.